

DEPARTMENT OF THE ARMY

WALLA WALLA DISTRICT, CORPS OF ENGINEERS BOISE REGULATORY OFFICE 720 EAST PARK BOULEVARD, SUITE 245 BOISE, IDAHO 83712-7757

August 09, 2022

Regulatory Division

SUBJECT: NWW-2004-0600046, Suspension Letter for authorization under NWP 14 Site 1, US-95 Thorn Creek Road to Moscow, ITD Key No. 09294

Mr. Doral Hoff Idaho Transportation Department, District 2 Post Office Box 837 Lewiston ID, 83843

Dear Mr. Hoff:

This letter is in regard to the Corps' decision, dated March 9, 2021, verifying authorization for project activities at Site 1 of the Thorn Creek Road to Moscow highway improvement under Nationwide Permit (NWP) No. 14: Linear Transportation Projects. The Corps has received new information that demonstrates there are unaccounted for wetlands within Site 1 that would likely be permanently impacted by the proposed Site 1 crossing, such that total Site 1 permanent losses of aquatic resources would not meet the criteria for authorization under NWP 14.

The Corps is hereby suspending its verification of authorization under NWP 14 for project activities specifically at Site 1. All activities at Site 1 undertaken in reliance on the Corps' March 9, 2021, verification letter for Site 1 therefore must immediately cease. Please note this suspension applies only to Site 1.

After a site visit conducted pursuant to a court order issued in Case No. 1:22-cv-00122-BLW (U.S. District Court, District of Idaho), Paradise Ridge Defense Coalition (PRDC) provided the Corps with a Letter Report dated June 29, 2022, which presented wetland delineation data collected at five sample points at Site 1. PRDC's Letter Report concluded that 1.16 acres of previously unidentified aquatic resources exist at Site 1. These aquatic resources were not accounted for by ITD or the Corps in 2020 and 2021 during the application and Site 1 permit verification process. After reviewing PRDC's Letter Report, ITD's Report dated July 20, 2022, and PRDC's Response to ITD's Report dated July 22, 2022, the Corp conducted an independent evaluation of the PRDC sample points within Site 1 on August 1, 2022, and determined that some additional aquatic resources indeed exist within Site 1.

The Corps' March 9, 2021, verification for Site 1 authorized under NWP 14 the

USACE NWW 006694

permanent loss of 0.468 acres of aquatic resources. The PRDC report identified an additional 1.16 acres of aquatic resources within Site 1—largely, it appears, within the area of permanent Site 1 project impacts. The Corps did not affirm the total additional acres of aquatic resources identified by PRDC. However, given the likely increase in expected losses to aquatic resources, the Corps cannot assure that permanent impacts at Site 1 will remain at or under the 0.5-acre limit for permanent loss of aquatic resources imposed by NWP 14.

In accordance with regulations at 33 C.F.R. §330.5(2), the Corps is suspending its March 9, 2021, verification for Site 1 of the Thorn Creek Road to Moscow highway improvement, to the extent that it allowed fill within Tributary P, Thorn Creek, Wetland B1, Wetland 23A, and Wetland 23B at Site 1 under NWP 14. This suspension is effective immediately. Given the expediency of litigation associated with this matter, the Corps proposes to formally revoke the verification on August 19, 2022. If you would like to present additional information regarding this matter, you may request to meet with the Corps prior to August 19, 2022.

If you have any questions or need additional information about this verification action, you can contact Michaela Murdock at Michaela.M.Murdock@usace.army.mil. For informational purposes, a copy of this letter will be sent to Mr. Shawn Smith of the Idaho Transportation Department (ITD), Ms. Aimee Hill of the ITD, Mr. Brent Inghram of the Federal Highways Administration, Ms. Sujata Connell of the Idaho Department of Environmental Quality, Mr. Clay Hickey of the Idaho Department of Fish and Game, Ms. Christina Hacker of the U.S. Fish and Wildlife Service, and Ms. Ashley Brown of the Idaho State Historic Preservation Office.

Sincerely,

Kelly Urbanek

Regulatory Division Chief

Kelly J. Urbanel

Enclosures:

- 1. March 9, 2021 NWP 14 verification letter for Site 1
- 2. August 9, 2022 Memorandum for Record including Attachments

Enclosure 1 (Placeholder)

March 9, 2021, Verification Decision Letter, "NWW-2004-0600046, US-95 Thorn Creek Road to Moscow, KN 09294," to Doral Hoff, Idaho Transportation Department, District 2, from Kelly J. Urbanek, Chief of Regulatory Division with Attachments

* This document was previously provided to the Court and the Parties in the Administrative Record filed May 11, 2022, located at the following:

Starting Bates	Ending Bates	Date 🕌	Author	Recipient	Subject/Description
USACE NWW 000001	USACE_NWW_000132	3/9/2021	1	Transportation Department,	Letter to ITD Verifying 13 Single and Complete Project Sites Under Nationwide Permit 14 (includes response to request for Preliminary Jurisdictional Determination)





MEMORANDUM FOR RECORD

August 9, 2022

NWW-Regulatory Division NWW-2004-0600046, US-95 Thorn Creek Road to Moscow

SUMMARY

Aquatic resources at Site 1 of the proposed Thorn Creek Road to Moscow (TC2M) highway improvement were evaluated by the Corps on August 1, 2022. It appears the total loss of waters of the United States at Site 1 may exceed the 0.5-acre threshold at this crossing for authorization under NWP 14. As such, the Corps should revoke its March 9, 2021, verification under NWP 14 for Site 1.

On August 1, 2022, U.S. Army Corps of Engineers (Corps) staff (Shane Skaar (NWW) and Dave Moore (NWS)) conducted an independent on-site evaluation of additional wetland delineation information provided by Paradise Ridge Defense Coalition (PRDC) and the Idaho Transportation Department (ITD). The PRDC report, dated June 29, 2022, was completed by Naiad Aquatic Consultants, LLC and Meadow Run Environmental, LLC and found 1.16 acres of additional palustrine emergent (PEM) wetlands within Site 1. The ITD report dated July 20, 2022, was completed by Resource Planning Unlimited, Inc., and it contested the results found in the PRDC report. PRDC additionally provided the Corps with a response to ITD's report dated July 22, 2022. The purpose of the Corps' site visit was to evaluate and consider PRDC's and ITD's different findings.

1.0 BACKGROUND

1.1 Location.

As set out in the Corps' March 9, 2021, verification letter, Site 1 is a single and complete linear project located between mile post 337.67 and 338.33 of US-95. The Site 1 project is located within in Latah County, near Moscow, Idaho.

NWP 14 Site	Impacted Aquatic Resources	Separate and complete project center point		
Number		Latitude	Longitude	
1	Tributary P, Thorn Creek, Wetland B1, Wetland 23A, Wetland 23B	46.637119°	-117.000354°	

1.2. Prior Evaluations of Site 1.

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Site 1 is located at the southernmost end of ITD's proposed highway improvement between Thorn Creek and Moscow, Idaho. It is on the existing alignment of U.S.-95. The site begins where the previously improved portion of U.S.-95 ends, transitioning from a four-lane divided highway with shoulders and a 65-mph speed limit to a two-lane road with narrow shoulders and a 60-mph speed limit. The land on both sides of the highway has historically been used for agriculture. Within the past 2-3 years, the area to the west of the highway has been fallow and it is returning to a more natural state. In particular, Reed Canary and Creeping Meadow Foxtail grasses have proliferated.

For purposes of ITD's Department of Army (DA) permit application for the aquatic resource crossings associated with the TC2M highway improvement, ITD and/or its consultants conducted at least seven site visits between 2018 and 2020 (August-September 2018, May 2019, July 2019, April-May 2020, August 2020, and September 2020). The Corps visited in July and August 2020 to evaluate the sampling conducting by ITD and its consultants. Five aquatic resources were identified at Site 1 – Tributary P, Thorn Creek, Wetland B1, Wetland 23A, and Wetland 23B. ITD and its consultants determined, and the Corps affirmed, that 0.468 acres of these waters of the United States would be lost because of construction of the Site 1 project:

Α	quatic Resource	Acres Impacted
1	Wetland B1	0.010
2	Wetland 23A	0.008
3	Wetland 23B	0.133
4	Tributary P	0.142
5	Thorn Creek	0.175
	TOTAL	0.468

On March 9, 2021, the Corps issued a verification decision letter determining that the proposed Site 1 project (as well as 12 other sites) was authorized under Nationwide Permit 14: Linear Transportation Projects ("NWP 14"). Included with the verification letter was a non-binding preliminary jurisdictional determination ("PJD"). The verification decision letter noted that the PJD "shall remain in effect, unless a request for an Approved Jurisdictional Determination or new information supporting a revision is provided to this office." New information supporting a revision of the PJD at Site 1 has now been provided to the Corps.

1.3. Paradise Ridge Defense Coalition Wetland Delineation (2022)

In response to a court order in Case No. 1:22-cv-00122-BLW (U.S. District Court, District of Idaho), consultants hired by Paradise Ridge Defense Coalition ("PRDC"), Dr. Nate Hough-Snee and Dr. William Kleindl, visited Site 1 on June 13-15, 2022. The consultants submitted their report on June 29, 2022.

PRDC's consultants reviewed the five aquatic resources identified in the PJD and the NWP 14 verification decision letter and substantially agreed with the determinations for three of the five aquatic resources – Wetland B1, Tributary P, and Thorn Creek. For Wetlands 23A and 23B, though, PRDC's consultants assert that an additional 0.022 acres of wetland in these areas would be lost because of construction of the Site 1 project (0.011, instead of 0.008 for Wetland 23A, and 0.152, instead of 0.133 for Wetland 23B).

Α	quatic Resource	PJD Total Acres	NWP 14 Acres Lost	PRDC Acres Lost
1	Wetland B1	0.010	0.010	0.011
2	Wetland 23A	0.011	800.0	0.011
3	Wetland 23B	0.413	0.133	0.152
4	Tributary P	0.175	0.142	0.142
5	Thorn Creek	0.174	0.175	0.175
	TOTAL	0.783	0.468	0.491

Additionally, PRDC's consultants identified two previously unidentified wetland areas. The first area, *Wetland WLN*, was found west of U.S.-95. They determined Wetland WLN is connected to Wetland 23A and 23B, thereby creating one larger continuous wetland at this location. PRDC's consultants found that Wetland WLN is 0.978 acres. The second area, *Wetland WLN-2*, was found east of U.S.-95 and immediately north of where Thorn Creek intersects U.S.-95. PRDC's consultants found that Wetland WLN-2 is 0.182 acres. PRDC's consultants did not calculate how much of this additional 1.16 acres could be permanently lost as a result of construction at Site 1; however, they opined that "[g]iven that this increase in wetland area exists within the proposed activities of road construction, it is very likely that this construction will exceed the half-acre threshold for the Nationwide Permit 14 that the Army Corps of Engineers has issued for this site."

PRDC's consultants analyzed five soil pit samples/data points that they contend support their findings (*i.e.*, all three wetland characteristics or parameters—hydrology, vegetation, and soil—were determined to be present). These five data points and their associated wetlands are listed below.

PRDC	
Data Point	Aquatic Resource
DP2W	Wetland WLN-2
DP5	Wetland WLN
DP12W	Wetland WLN
DP13W	Wetland WLN

1.4 Idaho Transportation Department's Wetland Verification (2022)

On July 14, 2022, Idaho Transportation Department and its consultants re-visited Site 1 to evaluate the wetland delineation findings made by PRDC's consultants. ITD's consultants looked at each of the 5 data points identified by PRDC as supporting ITD's wetland findings. ITD disagreed with PRDC's consultants, determining in its July 20, 2022, report that none of PRDC's five data points were located within wetlands (*i.e.*, none of the data points met all criteria for a wetland):

Data Point	Vegetation	Soil	Hydrology
DP2W	Yes	No	No
DP5	Yes	No	Yes
DP12W	No	No	Yes
DP13W	Yes	No	No
DP14W	Yes	No	Yes

1.5 Paradise Ridge Response to ITD Wetland Verification

On July 22, 2022, PRDC's consultants submitted a response to ITD's wetland verification memorandum dated July 20, 2022, in which ITD's consultants disagreed with PRDC's consultants' findings. In their response, PRDC's consultants maintained that additional, unaccounted for wetlands exist at Site 1 and opined that ITD's consultants' work was of "insufficient quality to refute our original findings."

1.6 U.S. Army Corps of Engineers, Walla Walla District Wetland Verification (2022)

On August 1 and 2, 2022, the Corps re-visited Site 1 to evaluate and consider the wetland findings made by PRDC's consultants and ITD's consultants. The Corps looked at each of the 5 data points previously analyzed by PRDC and ITD, as well as 2 additional data points. As discussed in more detail below, the Corps determined that all 7 data points were located within wetlands.

Data Point	Vegetation	Soil	Hydrology
WLN2 - DP2W	Yes	Yes	Yes
WLN-DP5	Yes	Yes	Yes
WLN-DP12W	Yes	Yes	Yes
WLN-DP13W	Yes	Yes	Yes
WLN-DP14W	Yes	Yes	Yes
ACE#1	Yes	Yes	Yes
ACE#2	Yes	Yes	Yes

During its site visit, the Corps did not delineate the boundaries of the additional wetland areas at Site 1 identified by PRDC and, thus, did not confirm the amount additional wetland acreage identified by PRDC's consultants. However, assuming (without accepting as true) the accuracy of PRDC's delineation, the newly identified wetland areas could add well over 1 acre of aquatic resources to the total amount of waters of the United States within Site 1.

Furthermore, although the Corps did not delineate the precise acreage of additional wetland areas, the location of and distance between the 7 data points evaluated by the Corps make it likely that: (1) additional wetlands will be permanently lost by construction of the Site 1 project; and (2) when combined with the other permanent losses previously identified at Site 1, total losses of aquatic resources at Site 1 would likely exceed the 0.5-acre threshold for authorization under NWP 14.

2.0 U.S. ARMY CORPS OF ENGINEERS' SITE VISIT (2022)

2.1 Site conditions.

The Antecedent Precipitation Tool (APT) confirmed that the Corps' field verification visit occurred within the 30-year normal range for precipitation in the region and that the verification occurred during the dry season, see figure 1 below. Previous precipitation events in June and July 2022 exceeded the 30-year normal range for precipitation, which is why the APT identified the precipitation conditions as wetter than normal for the August 1, 2022, site visit. No precipitation was observed on site during the Corps' site visit. The most recent precipitation event occurred on July 17, 2022, for the weather stations utilized by the APT.

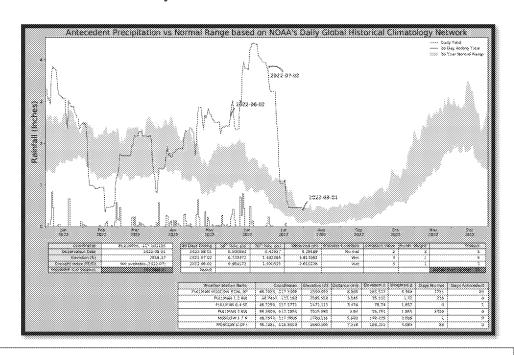
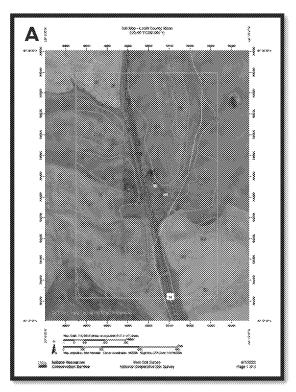


Figure 1, Antecedent Precipitation Tool Results for August 1, 2022, Field Verification at Site 1 of the US-95 Thorn Creek to Moscow highway improvement.

USDA web soil survey results dated August 3, 2022, found the soils within the wetlands (WLN, WLN2) as Latahco-Thatuna complex, 0 to 5 percent slopes. The dominant soils identified in the USDA web soil survey are not rated as hydric soils. However, the Latahco soils are somewhat poorly draining. Both wetland areas soils are categorized by the USDA Hydrologic Soils Map as hydrologic soil group C/D, which are soils that have slow infiltration rate when thoroughly wet. These consist primarily of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.



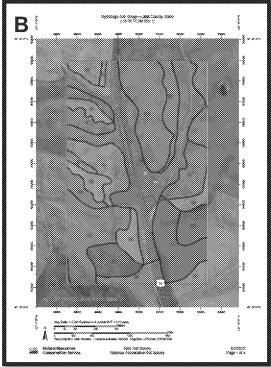
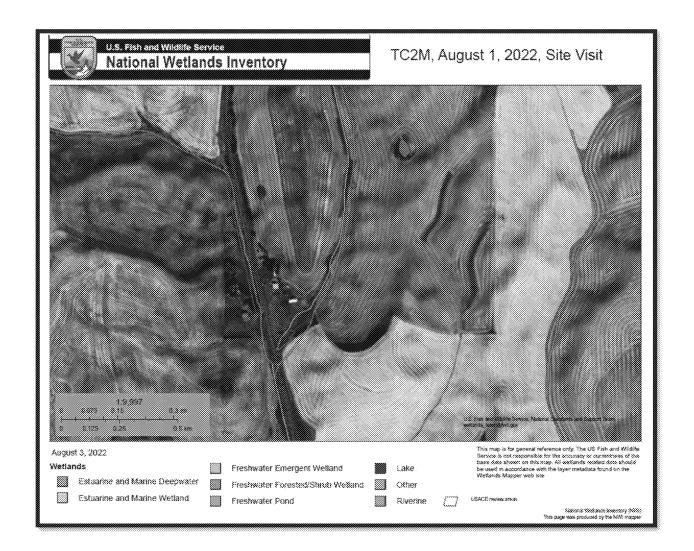


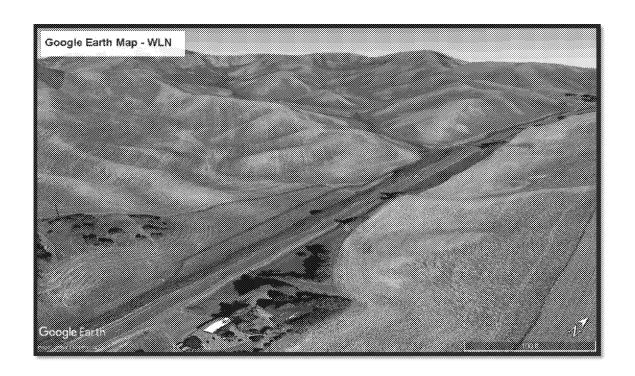
Figure 2A – Soils Map Figure 2B – Hydrologic Soil Group Map

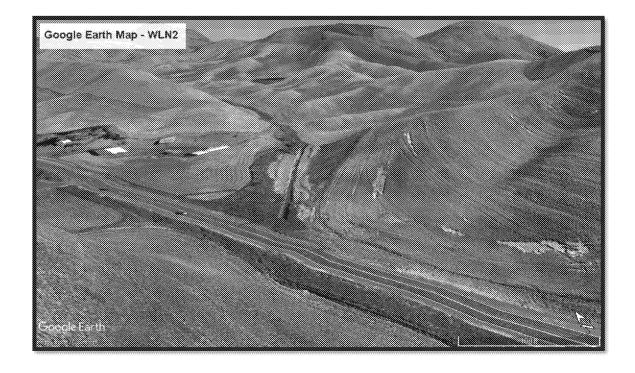
The review area for wetland WLN is not rated as a wetland based on the USFWS wetland mapper, dated August 3, 2022. Wetland WLN2 is also not demarcated on the USFWS mapper; however, a thin tributary-related wetland is identified.



2.2. Landscape setting.

Wetland "WLN" is located within the valley bottom near the western side of US-95. Wetland "WLN2" is located within the valley bottom near the eastern side of US-95. Wetlands WLN and WLN2 are found near the toe of slope of the agricultural hillsides. Both wetlands are in close proximity to agricultural practices such as haying of grass fields. The evaluation of samples DP13W and DP14W occurred in a small patch of undisturbed vegetation surrounded by hayed field. However, the need for a smaller assessment area (5ft radius) for herbaceous strata was sufficient for the samples. The other pits were located within relatively undisturbed vegetative strata. WLN parallels tributary P and the hillslope leading to tributary P.





2.3. Methodology/ Evaluation Approach.

The Corps' evaluation of wetlands used the procedures outlined in the Corps' Arid West Regional Supplement version 2.0, dated September 2008. All three parameters for wetlands were evaluated at each of the seven sample locations (5 data points by PRDC and 2 data points by the Corps), see the wetland data sheets (ENG Form 6116 (1)) documenting those results.

The 5 wetland data points established by PRDC (*i.e.*, DP2, DP5, DP12W, DP13W, DP14W), which were contested by ITD, was the focus of the August 1-2, 2022, site visit. The Corps evaluated sample points immediately adjacent to these 5 data points. Two additional sample points established by the Corps were also collected during the field visit. The Corps did not re-delineate the wetlands boundaries that were provided by the PRDC report.

Field data collected on August 1-2, 2022, for the 7 sample points evaluated (*i.e.*, DP5, DP12W, DP13W, DP14W, DP2, ACE#1, ACE#2) was entered into the automated wetland delineation worksheets (ENG Forms 6116 (1)) on August 3, 2022. The three wetland parameters evaluated at each of those 7 sites are discussed below.

2.4. Vegetation.

The Corps' wetland data points were located within the same vegetation stratum as the previous delineations conducted by PRDC and ITD. The sample points consisted of mainly herbaceous strata, dominated by Creeping Meadow Foxtail (*Alopecurus arundinaceus* (which are Facultative Plants). The dominant vegetation nearest to the tributaries (Tributary P, Thorn Creek) within Site 1 was Reed Canary Grass (*Phalaris arundinacea* (which are Facultative Wetland Plans (FACW)) and then the dominant vegetation transitioned to Creeping Meadow Foxtail (Alopecurus arundinaceus (which are Facultative Plants)) before transitioning to an upland vegetation community.

2.5 Soils.

At each of the five previously established data points the Corps collected soil cores for soils evaluation from new soil pits dug within a 3-4 feet radius of the two existing (PRDC's and ITD's) wetland delineation pits, see Figure 3A below. A sharpshooter shovel was used to collect an approximately 6-inches wide by 6-inches long by 15-inches deep soil core sample used in the evaluation. This larger than typical soil sample allowed the Corps to bisect the sample with a soil knife into two samples approximately 3-inches wide by 6-inches long by 15-inches deep, which allowed one side to remain dry to reference any redox features that might be harder to identify. One side of the sample was opened to ensure no instrument contamination from the shovels or knife impacted the soils which were being evaluated, see Figure 3B below.





Figure 3A – Corps Sample Pit location in relation to ITD Sample Pit (Right-hand Stake) and PRDC Sample Pit (Left-hand Stake).

Figure 3B - Photo of a bisected Corps soil core (sample on right-hand side was broken open and evaluated).

For soils matrices with a darker color, the soil core was allowed to dry for 20-40 minutes to allow for the redox features to become readily visible, pursuant to the F6 indicator user notes of the Arid West Regional Supplement¹. After soils dried, the samples were then moistened until the color no longer changed. The wetted soils were then allowed to dry until they no longer glistened. The soils evaluation was then conducted.

2.6 Hydrology.

The Corps conducted the field verification of the wetland sample points during the dry season instead of waiting for the wetted growing season, because of constraints imposed by the associated court case. The Antecedent Precipitation Tool (APT) confirmed the Corps' hydrology results. Site conditions were within the normal 30-year range for precipitation during the dry season for the day of the evaluation. However, the previous two months had higher than normal precipitation which resulted in APT output of wetter than normal conditions. The wetter than normal APT result had little bearing on the evaluation, though, since the sample points met the hydric soils and

¹ Pg 56, F6 indicator user notes: Careful examination is required to see what are often brownish redox concentrations in the darkened materials. If the soil is saturated at the time of sampling, it may be necessary to let it dry at least to a moist condition for redox features to become visible. In some instances, further drying of the samples makes the concentrations (if present) easier to see.

hydrophytic vegetation indicators, per the Arid West Regional Supplement.² Each sample site evaluated the primary and secondary indicators applicable for that region. The secondary indicator of drainage patterns (B10-secondary indicator) was not observed at the sample points.

At DP12 and DP13, the Corps did not find primary or secondary indicators for hydrology during the dry season review of the sample points. Since the site visit occurred during the dry season and the sample points (*i.e.*, DP12 and DP13) met the hydric soils and hydrophytic vegetation indicators and there was no evidence of hydrologic manipulation (*e.g.*, no drainage ditches, dams, levees, water diversions, etc.), the sample points were presumed to be a wetland and to meet all three parameters per the Arid West Regional Supplement pages.³

2.7 Wetland WLN.

The Corps conducted a verification of four wetland data pits (DP5, DP12W, DP13W, and DP14W) for the wetland identified as "WLN" within the PRDC report. All four of the data pits met all three wetland parameters during the Corps' evaluation. The Corps also completed two additional, separate wetland data points (ACE#1 and ACE#2). These data points were not collected during the PRDC evaluation or the ITD evaluation of Site 1. Both ACE#1 and ACE#2 sample points met all three wetland parameters. The Corps collected these two additional points to confirm its evaluation.

² Pp. 102-104, Section 3A.

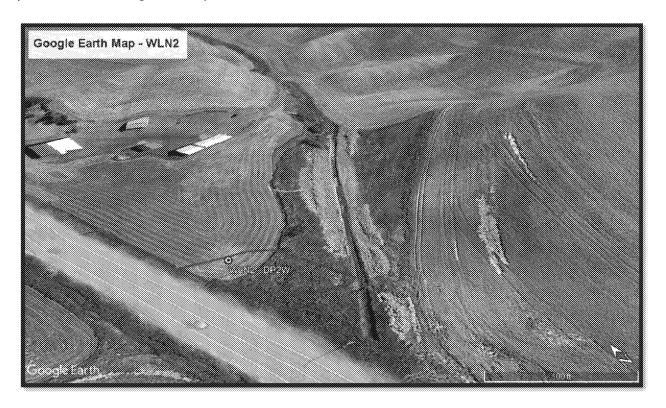
³ Arid West Regional Supplement, pp. 102-104, Section 3A: Site visits during the dry season. Determine whether the site visit occurred during the normal annual "dry season." The dry season, as used in this supplement, is the period of the year when soil moisture is normally being depleted and water tables are falling to low levels in response to decreased precipitation and/or increased evapotranspiration, usually during late spring and summer. It also includes the beginning of the recovery period in late summer or fall. The Web -Based Water-Budget Interactive Modeling Program (WebWIMP) is one source for approximate dates of wet and dry seasons for any terrestrial location based on average monthly precipitation and estimated evapotranspiration (http://climate.geog.udel.edu/~wimp/). In general, the dry season in a typical year is indicated when potential evapotranspiration exceeds precipitation (indicated by negative values of DIFF in the WebWIMP output), resulting in drawdown of soil moisture storage (negative values of DST) and/or a moisture deficit (positive values of DEF, also called the unmet atmospheric demand for moisture). Actual dates for the dry season vary by locale and year. In many wetlands, direct observation of flooding, ponding, or a shallow water table would be unexpected during the dry season. Wetland hydrology indicators, if present, would most likely be limited to indirect evidence, such as water marks, drift deposits, or surface cracks. In some situations, hydrology indicators may be absent during the dry season. If the site visit occurred during the dry season on a site that contains hydric soils and hydrophytic vegetation and no evidence of hydrologic manipulation (e.g., no drainage ditches, dams, levees, water diversions, etc.), then consider the site to be a wetland. If necessary, revisit the site during the normal wet season and check again for the presence or absence of wetland hydrology indicators. The highly variable spatial and temporal distribution of rainfall in the Arid West makes generalities difficult. However, if wetland hydrology indicators are absent during the wet portion of the growing season in a normal or wetter than-normal rainfall year, the site is probably non-wetland.

⁴ Note, however, that Wetland Hydrology was assumed for DP12 and DP13 as discussed in Section 2.6.



2.8 Wetland WLN2.

The Corps evaluated one wetland data pit (DP2) for the wetland identified as "WLN2" in the PRDC report dated June 29, 2022. The sample point DP2 met all three wetland parameters during the Corps evaluation.



2.9 Geospatial location of Data Points.

The geospatial coordinates for the Corps' wetland soil pits/data points were collected by a Corps staff surveyor (Robert J. Byrons) using a Trimble R12i base with Rover GPS, on August 2, 2022, see Figure 4 below. This GPS unit has horizontal accuracy of approximately 8 millimeters. The latitude and longitudinal coordinates for the sample points were provided on August 3, 2022, to the Corps Regulatory team.

The Corps used a Trimble R12i to record the locations of its soil pits/data points to eliminate any dispute based on the GPS device used. However, use of the Trimble R12i was not necessary. The location of the points evaluated by the Corps and their proximity to the points evaluated by PRDC and ITD were not in question. Moreover, the points evaluated by PRDC and ITD, and affirmed by the Corps on August 1-2, 2022, were all flagged and readily identifiable on the ground.



Figure 4 — Geospatial data collection using Trimble unit to collect Sample Point "DP2-Corps Review" within wetland "WLN2".

3.0 CONCLUSION

3.1 Site Visit Findings.

The Site 1 NWP 14 verification decision issued by the Corps on March 9, 2021, found 0.468 acres of permanent loss to aquatic resources at that site. This verification did not account for additional aquatic resources identified by the PRDC report and affirmed by the Corps on August 1-2, 2022.

Given these findings, the highway construction/crossing at Site 1 proposed in ITD's September 29, 2020, application likely would result in the permanent loss of more than 0.5 acre of aquatic resources at Site 1. For this reason, the Corps cannot assure that the proposed Site 1 work in ITD's application will be under the 0.5-acre threshold for permanent loss of aquatic resources for NWP 14.

3.2 Next Steps.

The Corps will suspend and propose to revoke the March 9, 2021, NWP 14 verification decision for Site 1, issued under Department of the Army Permit Number NWW-2004-060046.

COORDINATIO	N:	
Michaela Murdo Attorney Adviso	r, Office of Counsel Division	
☐ Concur	☐ Non-Concur	Date
SUBMITTED BY	Y :	
Shane Skaar	Resources Specialist	

FOR APPROVAL BY: CENWW-RD Division Chief

☑ APPROVED ☐ DISAPPROVED ☐ SEE ME

Kelly J. Whanst—
Kelly Urbanek

Regulatory Division Chief

Walla Walla District

Attachments:

1. Wetland Determination Data Sheets (August 1, 2022)

See ERDC/EL TR-08-28; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: US-95 Thorn Creek Rd to Moscow/Site 1		City/Cou	nty: Moscov	//Latah	Sampling £	Date: 8/1/	2022
Applicant/Owner: Idaho Transportation Departmen	t, District 2			State: ID	Sampling F	oint: wln	DP5-Corps
Investigator(s): Shane Skaar, Dave Moore		Section,	Township, Re	ange: Section 17, T	38N, R5W		
Landform (hillside, terrace, etc.): Valley		_ocal relief (c	oncave, conv	ex, none): None		Slope (%): _1-3
Subregion (LRR): LRR B Lat: 46.639910			Long: -	17.001400	Da	tum: <u>N</u> Al	D83
Soil Map Unit Name: Latacho-Thatuna complex				NWI cl	assification: None	;	
Are climatic / hydrologic conditions on the site typical fi	or this time of	f year?	Yes X	No (If no	, explain in Rema	ks.)	
Are Vegetation, Soil, or Hydrology	significantly o	disturbed? A	 ارد "Normal د	 Circumstances" pres	ent? Yes X	No	
Are Vegetation , Soil , or Hydrology			If needed, ex	plain any answers ir	n Remarks.)		
SUMMARY OF FINDINGS – Attach site ma			g point lo	cations, transe	cts, important	: feature:	s, etc.
Hydric Soil Present? Yes X N	o	1	e Sampled A n a Wetland		<u>X</u> No	~	
	O			***************************************		~~~~~~~~~~~	
Remarks:							
VEGETATION – Use scientific names of p	lants.						
	Absolute	Dominant	Indicator				
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test	worksheet:		
1. 2.	***************************************	***************************************	***************************************	Number of Domin	,	2	/A)
3.	***************************************	***************************************	***************************************	Are OBL, FACW,			^(A)
4.	***************************************	•••••		Total Number of [Across All Strata:	•	2	(B)
	:	=Total Cover	***************************************	Percent of Domin	ant Species That		
Sapling/Shrub Stratum (Plot size:)			Are OBL, FACW,	or FAC:	100.0%	(A/B)
1.	rennerennennennennennen	***************************************	nonnonnonnonnonnon			*****************	
3.	***************************************		***************************************	Prevalence Inde Total % Cov		Multiply b	.,,
		·······		OBL species	0 x1=	Multiply b 0	у.
5.			***************************************	FACW species	75 x2=		
		=Total Cover		FAC species	50 x 3 =		
Herb Stratum (Plot size: 5 ft radius)	***************************************			FACU species	10 x 4 =	40	
Alopecurus arundinaceus	50	Yes	FAC	UPL species	0 x5=	***************************************	
Cirsium arvense	10	No	FACU	Column Totals:	135 (A)	340	(B)
3. Phalaris arundinacea	75	Yes	FACW	Prevalence Inc	dex = B/A =	2.52	
5.			**********************	Hydrophytic Veg	etation Indicator		
6.	***************************************	***************************************		X Dominance T		э.	
7.				X Prevalence Ir			
8.		***************************************		Morphologica	l Adaptations ¹ (Pr	ovide supp	orting
	135 =	=Total Cover		data in Rei	marks or on a sep	arate sheet)
Woody Vine Stratum (Plot size:				Problematic H	Hydrophytic Veget	ation¹ (Exp	lain)
1. 2.	***************************************		***************************************	¹ Indicators of hyd be present, unles		, ,,	/ must
<u> </u>		=Total Cover			s disturbed or pro	лентацс.	
		-10101 00101		Hydrophytic Vegetation			
% Bare Ground in Herb Stratum % (Cover of Biotic	c Crust		_	Yes_X_ No	·	
Remarks:	***************************************	***************************************	***************************************			***************************************	

ENG FORM 6116-1, JUL 2018

SOIL Sampling Point: WLN DP5-Corps

Profile Desc	ription: (Describe t	o the depti	n needed to docu	ment th	ne indica	tor or c	onfirm the absence	of indicators.)
Depth	Matrix		Redox	Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 3/2	100					Loamy/Clayey	
4-10	10YR 3/1	97	10YR 4/6	3	С	PL	Loamy/Clayey	Prominent redox concentrations
10-16	10YR 3/1	100		***************************************		***************************************	Loamy/Clayey	
	10111077		***************************************	***************************************		•••••		

***************************************	***************************************	000000000000000000000000000000000000000		000000000000000000000000000000000000000	00000000000000		390000000000000000000000000000000000000	
	***************************************			***********				

¹Type: C=Cc	ncentration, D=Depl	etion, RM=F	Reduced Matrix, C	S=Cove	ered or Co	oated Sa	and Grains. ² Loc	cation: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applical	ole to all L	RRs, unless othe	rwise n	oted.)	*******************************	Indicate	ors for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Red	ox (S5)			1 cr	m Muck (A9) (LRR C)
Histic Ep	ipedon (A2)		Stripped M	atrix (S6	3)		2 cr	m Muck (A10) (LRR B)
Black His	stic (A3)		Loamy Mu	sky Mine	eral (F1)		Iron	-Manganese Masses (F12) (LRR D)
Hydroger	n Sulfide (A4)		Loamy Gle	yed Mat	trix (F2)		Rec	luced Vertic (F18)
Stratified	Layers (A5) (LRR C)	Depleted M	latrix (F	3)		Rec	l Parent Material (F21)
1 cm Mu	ck (A9) (LRR D)		X Redox Darl	k Surfac	ce (F6)		Ver	y Shallow Dark Surface (F22)
Depleted	Below Dark Surface	(A11)	Depleted D	ark Sur	face (F7)		Oth	er (Explain in Remarks)
Thick Da	rk Surface (A12)		Redox Dep	ression	s (F8)			
Sandy M	ucky Mineral (S1)							
Sandy G	leyed Matrix (S4)	³ Indicator	s of hydrophytic ve	egetatio	n and we	tland hy	drology must be pres	sent, unless disturbed or problematic.
Restrictive L	.ayer (if observed):							
Type:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	******************************	ennous.					
Depth (in	ches):	~~~~~~					Hydric Soil Preser	nt? Yes X No
							inutes. Dry solls were pre the evaluation wa	e moistened until the color no s conducted.
HYDROLO	GY							
Wetland Hvd	Irology Indicators:							
	ators (minimum of or	ne is require	ed; check all that a	ipply)			Second	ary Indicators (minimum of two required)
Surface \	Water (A1)		Salt Crust ((B11)				ter Marks (B1) (Riverine)
	ter Table (A2)		Biotic Crus				***************************************	liment Deposits (B2) (Riverine)
Saturatio	n (A3)		Aquatic Inv	ertebrat	tes (B13)		Drif	t Deposits (B3) (Riverine)
Water Ma	arks (B1) (Nonriveri i	ne)	Hydrogen S	Sulfide (Odor (C1))	Dra	inage Patterns (B10)
Sedimen	t Deposits (B2) (Non	riverine)	Oxidized R			-	oots (C3) X Dry	-Season Water Table (C2)
Drift Dep	osits (B3) (Nonriver i	ne)	Presence o			,	***************************************	yfish Burrows (C8)
2000000000	Soil Cracks (B6)		Recent Iror			lled Soil	, , , , , , , , , , , , , , , , , , ,	uration Visible on Aerial Imagery (C9)
	n Visible on Aerial In	nagery (B7)	***************************************				***************************************	illow Aquitard (D3)
Water-St	ained Leaves (B9)		Other (Exp	lain in R	(emarks	****************	X FAC	C-Neutral Test (D5)
Field Observ								
Surface Wate		**********	***************************************	Depth (i				
Water Table			***************************************	Depth (i		17		
Saturation Pr		sX	No	Depth (i	nches): _	13	Welland Hydrold	ogy Present? Yes X No
(includes cap	***************************************	dallas sec	sitoring wall carial	nhotos	nracione	inenee	tions) if available:	
Describe Kec	corded Data (stream	yauye, mor	moring well, aerial	priotos,	, previous	, inspec	uons), n avanabie:	
Remarks:	ocennacionennacionanacionnacionnacionnacionnacionnacionnacionnacionnacionnacionnacionnacionnacionnacionnacionn	cennaccennaccennacce	snancennancennancennancennancennancennancennance	*************************	***************************************	000000000000000000000000000000000000000	nnacennacennacennacennacennacennacennac	
1	y indicator evaluatior	was condu	icted during the dr	y seasc	n.			
			.					

ENG FORM 6116-1, JUL 2018Arid West – Version 2.0

See ERDC/EL TR-08-28; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: US-95 Thorn Creek Rd to Moscow/Site	1	City/Cou	nty: Moscow	v/Latah	Sampling Date:	8/1/2022
Applicant/Owner: Idaho Transportation Departme	ent, District 2			State: ID	Sampling Point:	WLN DP12-Corps
Investigator(s): Shane Skaar, Dave Moore		Section,	Fownship, Ra	ange: Section 17, T38N,	R5W	
Landform (hillside, terrace, etc.): Valley		Local relief (co	oncave, conv	vex, none): None	Slop	oe (%): <u>1-3</u>
Subregion (LRR): LRR B Lat: 46.638850)		Long: -1	117.001210	Datum:	NAD83
Soil Map Unit Name: Latacho-Thatuna complex				NWI classific	cation: None	***************************************
Are climatic / hydrologic conditions on the site typical	I for this time o	f year?	Yes X	No (If no, expl	lain in Remarks.)	
Are Vegetation , Soil , or Hydrology	significantly (disturbed? A	 \re "Normal (Circumstances" present?	Yes X No	5
Are Vegetation , Soil , or Hydrology				plain any answers in Rem	***************************************	***************************************
SUMMARY OF FINDINGS – Attach site r			g point lo	cations, transects,	important feat	tures, etc.
Hydrophytic Vegetation Present? Yes X	No	Is the	Sampled A	rea		
	No	1	n a Wetland		No	
Wetland Hydrology Present? Yes X	No			***************************************	***************************************	
Remarks:	000000000000000000000000000000000000000	·····	***************************************		***************************************	

VEGETATION – Use scientific names of				·		
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test work	(sheet:	
1.	***************************************		***************************************	Number of Dominant S		
2				Are OBL, FACW, or FA	•	2(A)
3		•••••		Total Number of Domir	ıant Species	
4			***************************************	Across All Strata:	***************************************	(B)
Sapling/Shrub Stratum (Plot size:	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	=Total Cover		Percent of Dominant S Are OBL, FACW, or FA	•	0.0% (A/B)
1.	<i>'</i>			AIG OBL, I ACW, OI I A		0.076 (A/D)
2.	*****	***************************************	***************************************	Prevalence Index wor	ksheet:	
3.				Total % Cover of:	Mult	iply by:
4				OBL species 0	x 1 =	0
5				FACW species 0		0
I to de Ottonium (Classiana C. A. analisma)	***************************************	=Total Cover		FAC species150	••••••	450
Herb Stratum (Plot size: 5 ft radius)	75	Yes	FAC	FACU species 0 UPL species 20		0 100
Elymus repens	75	Yes	FAC	Column Totals: 170		550 (B)
3. Trifolium dubium	20	No	UPL	Prevalence Index =		
4.		200000000000000000000000000000000000000	***************************************		30000000000000000000000000000000000000	***************************************
5	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************	nonnonnonnonnonnon	Hydrophytic Vegetation		
6.		***************************************	***************************************	X Dominance Test is		
7. 8.		***************************************	***************************************	Prevalence Index i Morphological Ada		supporting
O	 170 :	=Total Cover			s or on a separate	
Woody Vine Stratum (Plot size:)	, 500, 5010,		Problematic Hydro		
1.				¹ Indicators of hydric so	il and wetland hyd	rology must
2		•••••		be present, unless dist	urbed or problema	tic.
		=Total Cover		Hydrophytic		
9/ Poro Cround in Harb Stretum	Cover of Dist	o Cruot		Vegetation	V Nin	
	6 Cover of Bioti	U CIUSI	10000001	Present? Yes_	X No	
Remarks:						

ENG FORM 6116-1, JUL 2018

SOIL Sampling Point: WLN DP12-Corps

Profile Desci	ription: (Describe t	o the dept	h needed to docu	ment tl	ne indica	tor or c	confirm the absence of	of indicators.)
Depth	Matrix		Redo	(Featur	**********			
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 3/1	97	10YR 4/6	3	<u> </u>	PL	Loamy/Clayey	Prominent redox concentrations
6-15	10YR 3/1	90	10YR 5/3	5	D	PL	Loamy/Clayey	
		-	10YR 4/2	5	С	PL/M		Faint redox concentrations
15-22	10YR 3/1	93	10YR 5/2	7	D	M	Loamy/Clayey	
	70711071		70711072				20011197-01009-09	
sanonnannannannannannannannan	nnanconanconanconanconanconanconanconan	000000000000000000000000000000000000000	ennocennocennocennocennocennocennocenno	200000000000000000000000000000000000000	000000000000000		жение положения п	
•••••				**********	***************************************	***************************************	•••••	
	***************************************		***************************************					
¹Type: C≃Co	ncentration, D=Depl	etion, RM=	Reduced Matrix, C	S=Cove	red or Co	oated Sa	***************************************	ation: PL=Pore Lining, M=Matrix.
-	ndicators: (Applica	ble to all L			-			s for Problematic Hydric Soils ³ :
Histosol (Sandy Rec				**********	Muck (A9) (LRR C)
	ipedon (A2)		Stripped M					Muck (A10) (LRR B)
Black His			Loamy Mu	•			***************************************	Manganese Masses (F12) (LRR D)
	n Sulfide (A4)		Loamy Gle					ced Vertic (F18)
	Layers (A5) (LRR C)	Depleted N		•		***************************************	Parent Material (F21)
**********	ck (A9) (LRR D)		X Redox Dar					Shallow Dark Surface (F22)
	Below Dark Surface	(A11)	Depleted D				Other	r (Explain in Remarks)
***************************************	rk Surface (A12)		Redox Dep	ression	s (F8)			
**********	ucky Mineral (S1)	3						
Sandy Gl	eyed Matrix (S4)	"Indicator	rs of hydrophytic v	egetatio	n and we	tland hy	drology must be prese	ent, unless disturbed or problematic.
Restrictive L	ayer (if observed):							
Type: _	***************************************	***************************************	***************************************					
Depth (in	ches):						Hydric Soil Present	? Yes X No
Remarks:								
			-		-		•	moistened until the color no
longer change	ed and the wetted so	ils were all	owed to dry until th	ey no k	onger glis	ten befo	ore the evaluation was	conducted.
						••••		
HYDROLO	GY							
Wetland Hyd	lrology Indicators:							
Primary Indic	ators (minimum of o	ne is requir	ed; check all that a	ipply)				y Indicators (minimum of two required)
Surface V	Water (A1)		Salt Crust	(B11)			Wate	r Marks (B1) (Riverine)
	ter Table (A2)		Biotic Crus	t (B12)			Sedir	ment Deposits (B2) (Riverine)
Saturatio			Aquatic In\	ertebra	es (B13)		Drift I	Deposits (B3) (Riverine)
	arks (B1) (Nonriveri	•	Hydrogen :				*******	age Patterns (B10)
	t Deposits (B2) (Non	•	Oxidized R			-	***************************************	Season Water Table (C2)
	osits (B3) (Nonriver	ine)	Presence o			•	•••••	fish Burrows (C8)
*************	Soil Cracks (B6)		Recent Iro			lled Soil	, , , , , , , , , , , , , , , , , , ,	ration Visible on Aerial Imagery (C9)
	n Visible on Aerial Ir	nagery (B7	000000000		, ,		*******	ow Aquitard (D3)
Water-St	ained Leaves (B9)		Other (Exp	lain in F	lemarks)		FAC-	Neutral Test (D5)
Field Observ								
Surface Wate		S	*************		nches): _			
Water Table					nches): _			
Saturation Pr		5	NoX	Depth (i	nches): _		Wetland Hydrolog	gy Present? Yes X No
(includes cap							1	
Describe Rec	orded Data (stream	gauge, mo	nitoring well, aerial	pnotos	previous	s inspec	tions), if available:	

Domorko:	***************************************	econo comence como como como como como como como co	***************************************					
Remarks: The hydrolog	v indicator evaluation	was cond	ucted durina the di	v seasc	n. Hvdro	loav is s	assumed per Arid Wes	t Regional Suppliment (pg 102-104) No.
The hydrolog	y indicator evaluation dicators were observ		ucted during the di	y seasc	n. Hydro	logy is a	assumed per Arid Wes	t Regional Suppliment (pg 102-104). No

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See ERDC/EL TR-08-28; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: US-95 Thorn Creek Rd to Moscow/Site 1	***************************************	City/Cou	8/1/2022			
Applicant/Owner: Idaho Transportation Department	nt, District 2			State: ID	Sampling Point:	WLN DP13 Corps
Investigator(s): Shane Skaar, Dave Moore		Section, 1	ľownship, Ra	nge: Section 17, T38N,	R5W	
Landform (hillside, terrace, etc.): Valley	L	ocal relief (co	oncave, conv	ex, none): None	Slop	oe (%): <u>1-3</u>
Subregion (LRR): LRR B Lat: 46.638580			Long: -1	17.001120	Datum:	NAD83
Soil Map Unit Name: Latacho-Thatuna complex				NWI classific	cation: None	***************************************
Are climatic / hydrologic conditions on the site typical	for this time of	year?	Yes X	No (If no, expl	lain in Remarks.)	
Are Vegetation , Soil , or Hydrology	significantly d	isturbed? A	 در «Normal C	circumstances" present?	Yes X No	5
Are Vegetation , Soil , or Hydrology	-		If needed, exp	plain any answers in Rem	narks.)	
SUMMARY OF FINDINGS – Attach site m			g point lo	cations, transects,	important feat	tures, etc.
Hydrophytic Vegetation Present? Yes X	No.	Is the	Sampled A	rea		
			n a Wetlandî		No	
Wetland Hydrology Present? Yes X	Vo			UAAAAAAAAAAAAA	***************************************	
Remarks:	***************************************	***************************************	***************************************		***************************************	
VEGETATION – Use scientific names of	- 	·····				
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test work	(sheet:	
1.				Number of Dominant S		
2.				Are OBL, FACW, or FA	•	1(A)
3				Total Number of Domir	ıant Species	
4			***************************************	Across All Strata:		1(B)
Sapling/Shrub Stratum (Plot size:	***************************************	:Total Cover		Percent of Dominant S Are OBL, FACW, or FA	•	0.0% (A/B)
1	- [']			AIE OBL, FACTO, OF FA	10.	U.U 70 (A/D)
2.	non nonnonnonnonnonnonnon	***************************************	nennnennnennnennnen	Prevalence Index wor	ksheet:	
3.				Total % Cover of:	Mult	iply by:
4				OBL species 0	x 1 =	0
5				FACW species 0		0
(Classical Charles)	***************************************	:Total Cover		FAC species 100	••••••	300
Herb Stratum (Plot size: 5 ft radius) 1. Alopecurus arundinaceus	100	Yes	FAC	FACU species 20 UPL species 0		80
2. Bromus inermis	20	No	FACU	Column Totals: 120		380 (B)
3.			***************************************	Prevalence Index =		
4.		000000000000000000000000000000000000000	**************************************		30000000000000000000000000000000000000	***************************************
5	•• •••••••	***************************************	***************************************	Hydrophytic Vegetation		
6.			***************************************	X Dominance Test is		
7. 8.		***************************************		Prevalence Index is Morphological Ada		supporting
0.	120 =				s or on a separate	
Woody Vine Stratum (Plot size:	***************************************	, 500.		Problematic Hydro	· ·	
1.				¹ Indicators of hydric so	il and wetland hyd	rology must
2.				be present, unless dist	urbed or problema	tic.
		:Total Cover		Hydrophytic		
9/ Para Cround in Harb Stratum	Cover of Biglia	Cauct		Vegetation	V Nin	
	Cover of Biotic	. Clust	***************************************	Present? Yes_	X No	
Remarks:						

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SOIL Sampling Point: WLN DP13 Corps

Profile Desc	ription: (Describe t	o the depth	needed to docu	ıment th	ne indica	tor or c	onfirm the abser	nce of indicators.)	
Depth	Matrix		Redox	k Featur					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-6	10YR 3/1	100				~~~~	Loamy/Clayey	/	
6-11	10YR 3/1	93	5YR 3/4	7	C	PL/M	Loamy/Clayey	Prominent redox concentrations	
11-21	10YR 3/1	97	10YR 4/4	3	С	PL	Loamy/Clayey	/ Distinct redox concentrations	
***************************************			***************************************						
***************************************	***************************************	nnoosnoonnoonno nnoon		0000000000000000	noonnnoonnnoo	000000000000000000000000000000000000000	350000000000000000000000000000000000000		
	***************************************		••••••	***************************************	*******************	***************************************	••••••		
	***************************************	***************************************		***************************************		***************************************			
Type: C=Cc	 oncentration, D≕Deplo	etion RM≈F	Reduced Matrix C	S=Cove	red or Co	nated S	and Grains 2	Location: PL=Pore Lining, M=Matrix.	
·····	ndicators: (Applical			***************************************		30100 0		ators for Problematic Hydric Soils ³ :	
Histosol			Sandy Red		-			cm Muck (A9) (LRR C)	
	ipedon (A2)		Stripped M				******	2 cm Muck (A10) (LRR B)	
Black His			Loamy Mu		•		000000000	ron-Manganese Masses (F12) (LRR D)	
	n Sulfide (A4)		Loamy Gle	•			***************************************	Reduced Vertic (F18)	
Stratified	Layers (A5) (LRR C)	Depleted M	/latrix (F	3)		F	Red Parent Material (F21)	
1 cm Mu	ck (A9) (LRR D)		X Redox Dar	k Surfac	e (F6)		/	/ery Shallow Dark Surface (F22)	
Depleted	Below Dark Surface	(A11)	Depleted D	ark Sur	face (F7)		(Other (Explain in Remarks)	
Thick Da	rk Surface (A12)		Redox Dep	ression	s (F8)				
Sandy M	ucky Mineral (S1)								
Sandy G	leyed Matrix (S4)	³ Indicators	s of hydrophytic ve	egetatio	n and we	tland hy	drology must be p	present, unless disturbed or problematic.	
Restrictive L	.ayer (if observed):								
Type:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	********************************	nonor						
Depth (in	ches):						Hydric Soil Pre	sent? Yes X No	
	ark-colored soils the seed and the wetted so							vere moistened until the color no was conducted.	
HYDROLO	GY								
Wetland Hyd	Irology Indicators:								
	ators (minimum of or	ne is require	d; check all that a	apply)			Seco	ndary Indicators (minimum of two required)	
Surface \	Water (A1)		Salt Crust	(B11)			\	Vater Marks (B1) (Riverine)	
High Wa	ter Table (A2)		Biotic Crus	t (B12)				Sediment Deposits (B2) (Riverine)	
Saturatio	n (A3)		Aquatic Inv	ertebrat	es (B13)			Orift Deposits (B3) (Riverine)	
~~~~	arks (B1) <b>(Nonriveri</b> i	•	Hydrogen 3		, ,		*******	Orainage Patterns (B10)	
	t Deposits (B2) (Non		Oxidized R			-	***************************************	Dry-Season Water Table (C2)	
	osits (B3) (Nonriveri	ine)	Presence o				***************************************	Crayfish Burrows (C8)	
3000000000	Soil Cracks (B6)	(D7)	Recent Iron			lled Soil	nnnnnnnn	Saturation Visible on Aerial Imagery (C9)	
	n Visible on Aerial In ained Leaves (B9)	nagery (br)	Thin Muck Other (Exp				***************************************	Shallow Aquitard (D3) FAC-Neutral Test (D5)	
			Other (Exp					AO-Hedrar Test (DD)	
Field Observ Surface Wate			No Y	Depth (i	nchos):				
Water Table		***********	***************************************	Depth (i Depth (i	·				
Saturation Pr				Depth (i	_		Wetland Hydi	rology Present? Yes X No	
(includes cap				<b>-</b> - p (				, , , , , , , , , , , , , , , , , , , ,	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	corded Data (stream	gauge, mon	itoring well, aerial	photos,	previous	s inspec	tions), if available		
70000000000000000000000000000000000000									
Remarks: Hydrology is present.	assumed due to site	visit occurin	g during dry seas	on, per	pages 10)2-104 A	Arid West Regiona	I Suppliment. No secondary indicators were	

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See ERDC/EL TR-08-28; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: US-95 Thorn Creek Rd to Moscow/Site	1	City/Cou	inty: Moscow	//Latah	Sampling Date:	8/1/2022
Applicant/Owner: Idaho Transportation Departme	ent, District 2			State: ID	Sampling Point:	WLN DP14 Corps
Investigator(s): Shane Skaar, Dave Moore		Section,	Township, Ra	ange: Section 17, T38N	I, R5W	
Landform (hillside, terrace, etc.): Valley		Local relief (c	oncave, conv	ex, none): None	Slop	oe (%): <u>1-3</u>
Subregion (LRR): LRR B Lat: 46.637760)	'	Long: -1	117.000700	Datum:	NAD83
Soil Map Unit Name: Latacho-Thatuna complex				NWI classi	ification: None	
Are climatic / hydrologic conditions on the site typica	I for this time o	of year?	Yes X	No (If no, ex	plain in Remarks.)	
Are Vegetation, Soil, or Hydrology	significantly	disturbed? /	 ∖re "Normal C	Circumstances" present?	? Yes X No	o
Are Vegetation , Soil , or Hydrology				plain any answers in Re	***************************************	***************************************
SUMMARY OF FINDINGS – Attach site r			g point lo	cations, transects	, important feat	lures, etc.
Hydrophytic Vegetation Present? Yes X	No	ls the	Sampled A	rea		
	No		n a Wetland		No	
Wetland Hydrology Present? Yes X	No				-	
Remarks:				***************************************	***************************************	
) 700 A 100						
VEGETATION – Use scientific names of		Daminant	Indicator			
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wo	rksheet:	
1				Number of Dominant	Species That	
2.				Are OBL, FACW, or I	FAC:	1 (A)
3. 4.		•		Total Number of Don Across All Strata:	inant Species	1 (B)
	500000000000000000000000000000000000000	=Total Cover		Percent of Dominant	Species That	
Sapling/Shrub Stratum (Plot size:)			Are OBL, FACW, or I	FAC: 10	0.0% (A/B)
1	nner sennennennennennennennen	**************************************	nonnonnonnonnonnon	Prevalence Index w	arkahaat	***************************************
3				Total % Cover of		iply by:
4.	***************************************	***************************************			0 x1=	0
5.					0 x2=	0
	***************************************	=Total Cover		FAC species 1	20 x3=	360
Herb Stratum (Plot size: 5 ft radius)					0 x 4 =	0
1. Alopecurus arundinaceus	100	Yes	FAC	,	0 x5=	0 360 (B)
2. Elymus repens 3.		<u>No</u>	FAC_	Column Totals: 1 Prevalence Index		,,,,
4.		200000000000000000000000000000000000000	nonnacconnacconnacconn	1 Tovaletico filadox		/ ennoncennoncennon
5.		***************************************	***************************************	Hydrophytic Vegeta	tion Indicators:	vannononnonnonnonnonnonnon
6.				X Dominance Test	is >50%	
7		***************************************		X Prevalence Index		
8		T 1 1 0			taptations ¹ (Provide ks or on a separate	
Woody Vine Stratum (Plot size:	120	=Total Cover			rophytic Vegetation ¹	
1	···· /			¹ Indicators of hydric s	. , ,	` ' '
2.				be present, unless di		
		=Total Cover		Hydrophytic		
				Vegetation		
% Bare Ground in Herb Stratum %	6 Cover of Bio	ic Crust		Present? Yes	X No	****
Remarks:	noil profit-					
Camas (Camassia quamash) bulb observed in the s	son prome.					

ENG FORM 6116-1, JUL 2018

SOIL Sampling Point: WLN DP14 Corps

Profile Desc	ription: (Describe	to the depth	needed to docu	ment th	ne indica	tor or o	confirm the abs	sence of	indicators.)
Depth	Matrix		Redox	Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0-12	10YR 3/1	90	5YR 4/6	10	C	PL	Loamy/Clay	yey	Prominent redox concentrations
12-22	10YR 3/1	98	10YR 4/2	2	D	PL	Loamy/Clay	/ev	
1 00 00 00									
				***************************************		•			
***************************************	***************************************	000000000000000000000000000000000000000	000000000000000000000000000000000000000	2000000000000000	000000000000000000000000000000000000000		xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
					***************************************	***************************************			
1Type: C=Cc	ncentration, D=Depl	etion RM=R	educed Matrix C	S=Cove	red or Co	nated S	and Grains	² l ocativ	on: PL=Pore Lining, M=Matrix.
·····	ndicators: (Applica		***************************************	***************************************		Jaieu O		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	for Problematic Hydric Soils ³ :
Histosol		ore to an are	Sandy Red		-				luck (A9) (LRR C)
Histic Epipedon (A2) Stripped Matrix (S6)							*******		luck (A10) (LRR B)
Black His			Loamy Muc		*		0000000	****	anganese Masses (F12) (LRR D)
	n Sulfide (A4)		Loamy Gle				ununnun	ww	ed Vertic (F18)
	Layers (A5) (LRR C	3	Depleted IV					~~~	rent Material (F21)
	ck (A9) (LRR D)	,	X Redox Darl		•		***************************************	~~	nallow Dark Surface (F22)
**********	Below Dark Surface	(A11)	Depleted D		• •	i	*******		Explain in Remarks)
	rk Surface (A12)	(,	Redox Dep						,
*************	ucky Mineral (S1)		nnnnnnnn		- ()				
***********	leyed Matrix (S4)	3Indicators	of hydrophytic ve	egetatio	n and we	tland hy	drology must be	e present	t, unless disturbed or problematic.
	.ayer (if observed):		***************************************	*					
Type:	ayer (ir oxoci rea).								
Depth (ir	ches):		was a				Hydric Soil P	resent?	Yes X No

Remarks:	ork-colored soils the	enil cora wae	allowed to dry fo	r annroi	vimataly '	20_40 m	inutes Drysoils	e wara m	oistened until the color no
	ed and the wetted so								
			,	,					
HYDROLO	 GY			•	•••••	•••••			
r	Irology Indicators:			***************************************					
	inology indicators: ators (minimum of o	na ja raguira	to shook all that a	nnlu)			50	oondon:	Indicators (minimum of two required)
	<i>M</i> ater (A1)	ne is required	salt Crust (44					Warks (B1) (Riverine)
	ter Table (A2)		Biotic Crus						ent Deposits (B2) (Riverine)
Saturatio	* *		Aquatic Inv		es (B13)		•		eposits (B3) (Riverine)
************	arks (B1) (Nonriveri	ne\	Hydrogen S				**************************************	ww	ge Patterns (B10)
~~~~	t Deposits (B2) (Non	•	X Oxidized R		, ,	,	oots (C3)	···	ason Water Table (C2)
	osits (B3) (Nonriver	-	Presence c			-			h Burrows (C8)
	Soil Cracks (B6)	,	Recent Iron				ls (C6)	···	ion Visible on Aerial Imagery (C9)
3000000000	n Visible on Aerial Ir	magery (B7)	Thin Muck				* / second	nne	v Aquitard (D3)
	ained Leaves (B9)	,	Other (Exp				***************************************	***	eutral Test (D5)
Field Obsen	/ations:		***************************************	****************					
Surface Wate		s	No [	Depth (ii	nches):				
Water Table		**********	***************************************	Depth (ii					
Saturation Pr		S		Depth (ii	_		Wetland Hy	/drology	Present? Yes X No
(includes cap	illary fringe)				· ••				
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	corded Data (stream	gauge, moni	toring well, aerial	photos,	previous	sinspec	ctions), if availab	ıle:	
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn	***************************************		000000000000000000000000000000000000000	~~~~~~~~~		******************************	***************************************	***************************************	
Remarks:						.,			
Oxidized rhiz indicators we		ots observed	within 12 inches o	ot soil si	urtace. S	oll was	moist to the tou	on throug	phout the soil profile. No secondary
maioatora We	, 5 65601 104.								
l									

ENG FORM 6116-1, JUL 2018Arid West – Version 2.0

See ERDC/EL TR-08-28; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: US-95 Thorn Creek Rd to Moscow/Site 1	City/County: Moscow/Latah Sampling Date: 8/1/2022					
Applicant/Owner: Idaho Transportation Department, District 2		State: ID	Sampling Point: WLN2 DP2 Corps			
Investigator(s): Shane Skaar, Dave Moore	Section, Township, Ra	nge: Section 17, T38N, F	R5W			
Landform (hillside, terrace, etc.): Valley	ocal relief (concave, conve	ex, none): None	Slope (%): <u>1-5</u>			
Subregion (LRR): LRR B Lat: 46.636050	Long: -1	16.999540	Datum: NAD83			
Soil Map Unit Name: Latacho-Thatuna complex		NWI classific	ation: None			
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes X	No (If no, expla	ain in Remarks.)			
Are Vegetation, Soil, or Hydrology significantly d	isturbed? Are "Normal C	Circumstances" present?	Yes X No			
Are Vegetation , Soil , or Hydrology naturally prob		plain any answers in Rema	arks.)			
SUMMARY OF FINDINGS – Attach site map showing		cations, transects, i	mportant features, etc.			
		······	······			
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	Is the Sampled Ar within a Wetland?		No			
Wetland Hydrology Present? Yes X No	***************************************					
Remarks:						
VEGETATION – Use scientific names of plants.						
Absolute <u>Tree Stratum</u> (Plot size:) % Cover	Dominant Indicator Species? Status	Dominance Test works	sheet			
1.	oposios. Otalao	Number of Dominant Sp				
2.		Are OBL, FACW, or FA				
3		Total Number of Domina	ant Species			
4	***************************************	Across All Strata:	1(B)			
***************************************	Total Cover	Percent of Dominant Sp				
Sapling/Shrub Stratum (Plot size:) 1.		Are OBL, FACW, or FA	C: <u>100.0%</u> (A/B)			
2.	***************************************	Prevalence Index work	ksheet:			
3.		Total % Cover of:	Multiply by:			
4		OBL species 0	x1= 0			
5		FACW species 0	x2 = 0			
***************************************	Total Cover	FACIL angular 0	······································			
Herb Stratum (Plot size: 5 ft radius) 1. Alopecurus arundinaceus 100	Yes FAC	FACU species 0 UPL species 0	x4 = 0 x5 = 0			
2. Elymus repens 20	No FAC	Column Totals: 120				
3.		Prevalence Index =	***************************************			
4.			>*************************************			
5	***************************************	Hydrophytic Vegetatio				
6.		X Dominance Test is:				
7. 8.	***************************************	X Prevalence Index is	s ≤3.0° otations¹ (Provide supporting			
	Total Cover		or on a separate sheet)			
Woody Vine Stratum (Plot size:)	10101		ohytic Vegetation¹ (Explain)			
1.		¹Indicators of hydric soil	l and wetland hydrology must			
2.		be present, unless distu	rbed or problematic.			
	Total Cover	Hydrophytic				
9/ Para Craund in Harh Stratum	Cruet	Vegetation	V No			
% Bare Ground in Herb Stratum	: Ciust	Present? Yes	X No			
Remarks:						

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SOIL Sampling Point: WLN2 DP2 Corps

Profile Desc	ription: (Describe t	o the depth	needed to doc	ument th	ne indica	tor or o	confirm the absence	of indicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 3/1	97	10YR 4/6	3	С	_ M	Loamy/Clayey	Prominent redox concentrations
4-10	10YR 3/1	90	5YR 4/6	10	C	PL/M	Loamy/Clayey	Prominent redox concentrations
10-16	10YR 3/2	99	10YR 4/6	1	C	M	Loamy/Clayey	Prominent redox concentrations
	***************************************					••••••		
			***************************************	***************************************				
***************************************	попосовонностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностиненностин	000000000000000000000000000000000000000	annesennoseennoseennoseennoseennoseennoseenno	***************************************	000000000000000000000000000000000000000	connection and the second	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	
	***************************************	***************************************			*****************		••••••	
		****************			***************************************		***************************************	
¹ Type: C=Co	oncentration, D=Dept	etion, RM=F	Reduced Matrix, (CS=Cove	red or C	oated S		ation: PL=Pore Lining, M=Matrix.
1 -	ndicators: (Applica	ble to all LF			-			s for Problematic Hydric Soils ³ :
Histosol			Sandy Re				*********	Muck (A9) (LRR C)
	ipedon (A2)		Stripped N	,	,		000000000	Muck (A10) (LRR B)
Black His			Loamy Mu				***************************************	Vanganese Masses (F12) (LRR D)
	n Sulfide (A4)		Loamy GI	-			***************************************	iced Vertic (F18)
	Layers (A5) (LRR C)	Depleted	,	•		***************************************	Parent Material (F21)
	ck (A9) (LRR D)	/ A d d)	X Redox Da				***************************************	Shallow Dark Surface (F22)
	l Below Dark Surface irk Surface (A12)	(ATT)	Depleted Redox De		, ,	}	Oule	r (Explain in Remarks)
************	lucky Mineral (S1)		Redox De	hiession	s (FO)			
***********	leyed Matrix (S4)	3Indicators	s of hydrophytic y	/edetatio	n and we	tland h	drology must be prese	ent, unless disturbed or problematic.
	ayer (if observed):			-9			, 9, ,	
Type:	.ayer (ii observed).							
Depth (ir	iches).	oceanno commo comm	manor				Hydric Soil Present	? Yes X No
Remarks: Soils were dr	v upon extractions. S	oils were w	etted with a spra	v bottle u	ntil the s	oil color	no longer changed an	d the soil were not glistening.
00/10 1/0/0 4/	y apon oxacconons. c	0.10 11010 11	ottoa min a opra	, 2011.00	.,., .,.	011 00101	no longor onangoa an	a the con word her ghotoling.
HYDROLO	GY							
Wetland Hyd	Irology Indicators:					***************************************		
Primary Indic	ators (minimum of o	ne is require	d; check all that	apply)			Secondar	ry Indicators (minimum of two required)
Surface '	Water (A1)		Salt Crust	(B11)			Wate	r Marks (B1) (Riverine)
High Wa	ter Table (A2)		Biotic Cru	st (B12)			Sedir	ment Deposits (B2) (Riverine)
Saturatio	on (A3)		Aquatic In	vertebrat	tes (B13)	}	Drift	Deposits (B3) (Riverine)
	arks (B1) (Nonriveri i	•	Hydrogen		,	,	*********	age Patterns (B10)
	t Deposits (B2) (Non	•	X Oxidized I			-	***************************************	Season Water Table (C2)
***********	osits (B3) (Nonriver	ine)	Presence			, ,	***************************************	fish Burrows (C8)
3000000000	Soil Cracks (B6)	(m, m)	Recent Iro			lled Soi	* ************************************	ration Visible on Aerial Imagery (C9)
	on Visible on Aerial Ir	nagery (B7)	Thin Mucl				***************************************	ow Aquitard (DS)
	tained Leaves (B9)		Other (Ex	piain in R	emarks)	**********		Neutral Test (D5)
Field Obser		_	No. V	Daniel /	m a la \			
Surface Wate		***********	No X No X	Depth (i				
Water Table			***************************************	Depth (i			Motiond Hudrolog	Ny Dracont 2 Voc. V No.
Saturation Pr (includes cap			NoX	Depth (i	nones)		asengua usanoio(gy Present? Yes X No
ļ	corded Data (stream	daude mon	itoring well aeris	al photos	previous	s insner	tions), if available	
	ware forecass	~~~ ~ ~,		p. 10100;	, p., w + 100	opoc	,, ii www.mabio.	
Remarks:		ocennoceennoceennoceennoceen	***************************************	***************************************	***************************************		***************************************	
Oxidized rhiz	ospheres occurred w	ithin the 4-1	0 inch soil profile) .				

ENG FORM 6116-1, JUL 2018 Arid West – Version 2.0

See ERDC/EL TR-08-28; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: US-95 Thorn Creek Rd to Moscow/Site 1		City/County: Moscow/Latah Sampling Date: 8/					
Applicant/Owner: Idaho Transportation Departme	nt, District 2			State: ID	Sampling Point:	WLN ACE#1	
Investigator(s): Shane Skaar, Dave Moore		Section, T	ownship, Rai	nge: Section 17, T38N,	R5W		
Landform (hillside, terrace, etc.): Valley	L	.ocal relief (co	oncave, conve	ex, none): None	Slop	oe (%): 1-3	
Subregion (LRR): LRR B Lat:			Long:		Datum:		
Soil Map Unit Name: Latacho-Thatuna complex				NWI classific	cation: None	***************************************	
Are climatic / hydrologic conditions on the site typical	for this time of	year?	Yes X	No (If no, expl	ain in Remarks.)		
Are Vegetation, Soil, or Hydrology	significantly d	isturbed? A	.re "Normal C	ircumstances" present?	Yes X No	0	
Are Vegetation , Soil , or Hydrology				olain any answers in Rem	***************************************		
SUMMARY OF FINDINGS – Attach site n			g point loc	ations, transects,	important fea	tures, etc.	
Hydrophytic Vegetation Present? Yes X 1	Vo	Is the	Sampled Ar	ea	***************************************		
	Vo		n a Wetland?		No		
Wetland Hydrology Present? Yes X	Vo			- Contraction -	***************************************		
Remarks:			***************************************		***************************************		
VEGETATION – Use scientific names of	*						
<u>Tree Stratum</u> (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test work	(sheet:		
1.				Number of Dominant S			
2.		***************************************		Are OBL, FACW, or FA	•	1(A)	
3		•••••		Total Number of Domir	nant Species		
4				Across All Strata:		1(B)	
Sapling/Shrub Stratum (Plot size:	***************************************	Total Cover		Percent of Dominant S Are OBL, FACW, or FA	•	0.0% (A/B)	
1	-'			Ale OBL, PACW, OF PA		U.U 70 (A/D)	
2.	**************************************	venennennennennennen		Prevalence Index wor	ksheet:		
3.				Total % Cover of:	Mult	iply by:	
4				OBL species 0	x 1 =	0	
5				FACW species 0		0	
(Classical Charles C. Francisco		Total Cover		FAC species 100	•••••	300	
Herb Stratum (Plot size: 5 ft radius)	100	Yes	FAC	FACU species 3 UPL species 0		12	
Cirsium arvense	3	No	FACU	Column Totals: 103		312 (B)	
3.				Prevalence Index =			
4.		200000000000000000000000000000000000000	***************************************		30000000000000000000000000000000000000	***************************************	
5		weenenenenenenen	necessaria	Hydrophytic Vegetation			
6.				X Dominance Test is			
7. 8.		***************************************		Prevalence Index is Morphological Ada		supporting	
0.	103 =	Total Cover			s or on a separate		
Woody Vine Stratum (Plot size:)			Problematic Hydro	phytic Vegetation ¹	(Explain)	
1.				¹ Indicators of hydric so	il and wetland hyd	rology must	
2.				be present, unless dist	urbed or problema	tic.	
		:Total Cover		Hydrophytic			
9/ Para Cround in Harb Stratum	Cover of Dietic	Cauct		Vegetation	V Na		
***************************************	Cover of Biotic	J CIUST		Present? Yes_	X No		
Remarks:							

ENG FORM 6116-1, JUL 2018

SOIL Sampling Point: WLN ACE#1

Profile Descr Depth	iption: (Describe t Matrix	o the depth		ıment tl x Featur		itor or o	confirm the ab	sence c	of indicators.)
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	2	Remarks
0-3	10YR 3/1	100	COIOI (IIIOISI)				Loamy/Cla		INGINAIRS
000000000000000000000000000000000000000	***************************************	annonnennennen sonnen	40\/D E/C		~		******************************	nonnonnonnonnon	Purposity and an electronic conductions
3-4	10YR 4/2	95	10YR 5/6	5		PL	Loamy/Cla		Prominent redox concentrations
4-14	10YR 3/1	95	10YR 4/6	3	C	PL	Loamy/Cla	ayey	Prominent redox concentrations
***************************************				***************************************					
300000000000000000000000000000000000000	n0000000000000000000000000000000000000	000000000000000000000000000000000000000	90000000000000000000000000000000000000	200000000000000000000000000000000000000	***************************************	neennoonen	35000000000000000000000000000000000000	weennamennamennamennamennamennamennamen and a second	***************************************
				************		***********	·····		

¹ Type: C=Co	ncentration, D=Depl	etion, RM=F	Reduced Matrix, C	S=Cove	ered or Co	oated S	and Grains.	² Loca	tion: PL=Pore Lining, M=Matrix.
Hydric Soil Ir	dicators: (Applica	ble to all LF	RRs, unless othe	rwise n	oted.)		li	ndicator	s for Problematic Hydric Soils³:
Histosol (41)		Sandy Red	lox (S5)				1 cm	Muck (A9) (LRR C)
Histic Epi	oedon (A2)		Stripped IV	atrix (Se	3)		50000	2 cm	Muck (A10) (LRR B)
Black His	• •		Loamy Mu				***************************************	-	Manganese Masses (F12) (LRR D)
	Sulfide (A4)		Loamy Gle						ced Vertic (F18)
	Layers (A5) (LRR C)	Depleted N		-		••••	~~~	Parent Material (F21)
	k (A9) (LRR D)		X Redox Dar		, ,		****		Shallow Dark Surface (F22)
	Below Dark Surface	(A11)	Depleted [` ')		Other	(Explain in Remarks)
	k Surface (A12)		Redox Dep	ression	s (F8)				
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.									
	eyed Matrix (S4)	mulcators	or riyuropriyiic v	egetatio	II and we	nanu ny	arology must i	Je prese	int, unless disturbed of problematic.
	ayer (if observed):								
Type:		***************************************	nnoor				Declara Carit	Duccent	2 Van V Na
Depth (inc	:nes):						Hydric Soil		? Yes X No
									moistened until the color no
longer change	d and the wetted so	ils were allo	wed to dry until th	ney no lo	onger glis	ten bef	ore the evaluat	ion was	conducted.
11/00010	······································								
HYDROLO									
	rology Indicators:	!	al also als all floors				0		. In dia dana (minimum af true manuin di
	tors (minimum of o	ne is require					<u>S</u>		y Indicators (minimum of two required)
Surface V	rater (AT) er Table (A2)		Salt Crust Biotic Crus	. ,				*****	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine)
Saturation	` '		Aquatic Inv	, ,	tes (B13)		••••		Deposits (B3) (Riverine)
***************************************	rks (B1) (Nonriveri	ne)	Hydrogen				unnon	******	age Patterns (B10)
*********	Deposits (B2) (Non	•	X Oxidized F				oots (C3)	*****	Season Water Table (C2)
	sits (B3) (Nonriver	=	Presence			-	` ′		ish Burrows (C8)
Surface S	oil Cracks (B6)		Recent Iro	n Reduc	ction in Ti	lled Soi	ls (C6)		ation Visible on Aerial Imagery (C9)
Inundation	n Visible on Aerial Ir	nagery (B7)	Thin Muck	Surface	(C7)		******	Shallo	ow Aquitard (D3)
Water-Sta	ined Leaves (B9)		Other (Exp	lain in F	Remarks)			FAC-	Neutral Test (D5)
Field Observ	ations:			***************************************	***************************************	***************************************		***************************************	
Surface Wate	r Present? Ye	S		Depth (i	nches): _				
Water Table f	resent? Ye	s			nches): _				
Saturation Pre		S	No <u>X</u>	Depth (i	nches): _		Wetland H	lydrolog	gy Present? Yes X No
(includes capi							11		
Describe Rec	orded Data (stream	gauge, mon	itoring well, aeria	photos	, previous	s inspec	tions), if availa	ble:	
Remarks:		***************************************	nnacennacennacennacennacennacennacennac	***************************************	***************************************		***************************************	***************************************	
i	ist to touch through	out the whol	e soil profile. The	hydrolo	gy indica	tor eval	uation was cor	nducted o	during the dry season. No secondary
indicators wer	e observed.								

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See ERDC/EL TR-08-28; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: US-95 Thorn Creek Rd to Moscow/Site	e 1	City/County: Moscow/Latah Sampling Date: 8/1						
Applicant/Owner: Idaho Transportation Departn	nent, District 2			State:	ID	Sampling Poin	t: WLN	ACE#2
Investigator(s): Shane Skaar, Dave Moore		Section, T	Fownship, Rar	nge: Section	17, T38N, F	R5W		
Landform (hillside, terrace, etc.): Valley	L	ocal relief (co	oncave, conve	x, none): <u>No</u>	one	S	lope (%):	1-3
Subregion (LRR): LRR B Lat: 46.63819			Long: -1	17.000810		Datum	: NAD	83
Soil Map Unit Name: Latacho-Thatuna complex				NV	VI classific	ation: None	***************************************	
Are climatic / hydrologic conditions on the site typic	al for this time of	year?	Yes X	No ((If no, expla	in in Remarks.)	
Are Vegetation, Soil, or Hydrology	significantly o	listurbed? A	 .re "Normal Ci	ircumstances"	present?	Yes X	No	
Are Vegetation, Soil, or Hydrology			f needed, exp	lain any answ	ers in Rema	arks.)	***************************************	
SUMMARY OF FINDINGS – Attach site							atures	, etc.
Hydrophytic Vegetation Present? Yes X Hydric Soil Present? Yes X	No	1	Sampled Ann a Wetland?		es_X_	No	anna ann an ann an ann an ann an ann an	
Wetland Hydrology Present? Yes X	No		***************************************				***************************************	
Remarks:								
VEGETATION – Use scientific names of	of plants.							
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance	Toet work	chaat:		
1. (Flot Size	78 COVE1	opedies:	Status	Number of D				
2.				Are OBL, FA			1	_ (A)
3.				Total Numbe	r of Domin	ant Species		-
4	***************************************			Across All St	rata:	***************************************	11	_(B)
Sapling/Shrub Stratum (Plot size:		=Total Cover		Percent of De Are OBL, FA			100.0%	_(A/B)
2.	nnnnne tennestennnstennnstennnste	***************************************		Prevalence	Index worl	sheet:	***************************************	***************************************
3.		***************************************		Total %	Cover of:	M	ultiply by:	
4	***************************************			OBL species	***************************************	x1=	0	
5				FACW speci		x2 =	0	-
Herb Stratum (Plot size: 5 ft radius)	***************************************	=Total Cover		FAC species FACU specie	***************************************	×3= ×4=	300 20	
Alopecurus arundinaceus	100	Yes	FAC	UPL species	***************************************	×5=	0	
Cirsium arvense	5	No	FACU	Column Tota	***************************************		320	~ (B)
3.		200000000000000000000000000000000000000		Prevalenc	e Index =	B/A =3.	.05	
4			***************************************	~~~~~				
5	***************************************	***************************************	reconnected		•	n Indicators:		
7.				X Dominar	nce Lest is ice Index is			
8.		***************************************		*********		tations ¹ (Provid	le suppor	rting
	105 =	=Total Cover				or on a separa		
Woody Vine Stratum (Plot size:)			Problem	atic Hydrop	hytic Vegetatio	n ¹ (Expla	ıin)
1. 2.	***************************************					and wetland hy		must
		Total Cover		Hydrophytic	•••••			
% Bare Ground in Herb Stratum	% Cover of Biotic	c Crust		Vegetation Present?	Yes	X No		
Remarks:		***************************************	***************************************		******		***************************************	
Camas bulbs (Camassia quamash) were present	in the soils.							

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SOIL Sampling Point: WLN ACE#2

Profile Desc	ription: (Describe t	o the depth	needed to docu	ment th	ne indica	tor or o	confirm the absence of	of indicators.)		
Depth	Matrix		Redox	Featur	es					
(inches)	Color (moist)	%	Color (moist)	%_	Type ¹	Loc ²	Texture	Remarks		
0-5	10YR 3/1	98	10YR 4/4	2	_ C_	PL	Loamy/Clayey	Distinct redox concentrations		
5-11	10YR 3/1	88	5YR 5/6	5	С	PL/M	Loamy/Clayey	Prominent redox concentrations		
		***************************************	10YR 4/2	7	D	M				
11-15	10YR 3/1	97	10YR 4/2	3	D	M	Loamy/Clayey			
	10111077		1011(-7/2			(4)	Loannyiolayoy			
хологоногоногоногоногоного	поссоносовоносовоносовоносовоносовоносовоно	200000000000000000000000000000000000000	попосонопосонопосонопосонопосонопосонопос	20222000000000000	000000000000000000000000000000000000000		ээлээээлэээлэээлэээлээ			
	***************************************	***************************************		***************************************	***************************************					
	***************************************					***************************************				
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.										
Hydric Soil I	ndicators: (Applicat	ole to all LF	RRs, unless othe	rwise n	oted.)		Indicator	s for Problematic Hydric Soils ³ :		
Histosol	(A1)		Sandy Red	ox (S5)			1 cm	Muck (A9) (LRR C)		
Histic Ep	ipedon (A2)		Stripped M				2 cm	Muck (A10) (LRR B)		
Black His	, ,		Loamy Mud				wwwwww	Manganese Masses (F12) (LRR D)		
	n Sulfide (A4)		Loamy Gle					ced Vertic (F18)		
	Layers (A5) (LRR C))	Depleted M				***************************************	Parent Material (F21)		
	ck (A9) (LRR D)		X Redox Darl				***************************************	Shallow Dark Surface (F22)		
	Below Dark Surface	(A11)	Depleted D		, ,		Other	(Explain in Remarks)		
	rk Surface (A12)		Redox Dep	ression	5 (68)					
	ucky Mineral (S1)	3 Indiantor	a of budranhidia i	anatatia		tland h	idralagii mijat ha praac	nt uplans disturbed or problematic		
	leyed Matrix (S4)	mulcators	s of flydrophlytic ve	gerano	rand we	пани пу	ratology must be prese	nt, unless disturbed or problematic.		
1	.ayer (if observed):									
Type:	None obser	ved	none				Ibadaia Oail Baasaa	2 Var Valla		
Depth (in	icnes):			************			Hydric Soil Present	? Yes X No		
Remarks:										
Soli was evai	uated immediately af	ter son core	was extracted.							
HYDROLO	GY					***************************************				
r			***************************************							
	Irology Indicators: ators (minimum of or	na je radujra	id: chack all that a	nnlul			Secondar	y Indicators (minimum of two required)		
	<i>N</i> ater (A1)	io is require	Salt Crust (r Marks (B1) (Riverine)		
	ter Table (A2)		Biotic Crus				***************************************	nent Deposits (B2) (Riverine)		
Saturatio	. ,		Aquatic Inv		es (B13)		***************************************	Deposits (B3) (Riverine)		
***************************************	arks (B1) (Nonriverir	ne)	Hydrogen S				www.com	age Patterns (B10)		
	t Deposits (B2) (Non	•	X Oxidized R		, ,		********	season Water Table (C2)		
Drift Dep	osits (B3) (Nonriveri	ne)	Presence o	of Reduc	ed Iron (C4)	Crayf	ish Burrows (C8)		
Surface	Soil Cracks (B6)		Recent Iron	n Reduc	tion in T i	lled Soil	ls (C6) Satur	ation Visible on Aerial Imagery (C9)		
Inundatio	n Visible on Aerial In	nagery (B7)	Thin Muck	Surface	(C7)		Shall	ow Aquitard (D3)		
Water-St	ained Leaves (B9)		Other (Exp	lain in R	emarks)		FAC-	Neutral Test (D5)		
Field Observ	/ations:	***************************************		*******	*****************	***************************************				
Surface Wate	er Present? Yes	3	No X I	Depth (ii	nches):					
Water Table	Present? Yes	3	No X I	Depth (ii	nches): _					
Saturation Pr	esent? Yes	·	No X	Depth (ii	nches): _		Wetland Hydrolog	y Present? Yes X No		
(includes cap	***************************************				***************************************					
Describe Red	corded Data (stream	gauge, mon	itoring well, aerial	photos,	previous	s inspec	tions), if available:			
C) + 10+ 0 - 12	***************************************	overence con a contraction of the contraction of th	nnassannassannassannassannassannassannassannass	20000000000000000000000000000000000000	nnnnnnnnnnnnnnnnnnn					
Remarks: The hydrology indicator evaluation was conducted during the dry season. No secondary indicators were observed.										
7 no sydrolog	, maloutor evaluation	, rad obridu	otod dannig the di	, 50450	, IVO 30	oonaar y	maiodioio woro obser	e words.		

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